

**FINAL EMERGENCY RESPONSE LETTER REPORT
SAVANNAH WAREHOUSE FIRE
SAVANNAH, CHATHAM COUNTY, GEORGIA
EPA CONTRACT NO. EP-W-05-054
TDD NO. TTEMI-05-001-0212**

Revision 0

Prepared for

**U.S. ENVIRONMENTAL PROTECTION AGENCY
Region 4, Emergency Response and Removal Branch
61 Forsyth Street, SW, 11th Floor
Atlanta, GA 30303**

Prepared by

**Tetra Tech Inc.
Superfund Technical Assessment and Response Team Region 4
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096**



Contract No.	:	EP-W-05-054
TDD No.	:	TTEMI-05-001-0212
Date Prepared	:	March 7, 2014
EPA OSC	:	Mr. Terry Stilman
Telephone No.	:	(404) 562-8748
START III Task Order Manager:	:	Christopher Jones
Telephone No.	:	(678) 775-3081

Prepared by

Christopher Jones

START III Task Order Manager

Reviewed by

Paul E. Prys II

START III Technical Reviewer

Approved by

Andrew F. Johnson

START III Program Manager



10992492



March 7, 2014

Mr. Terry Stilman
On-Scene Coordinator (OSC)
U.S. Environmental Protection Agency (EPA)
61 Forsyth Street, SW, 11th Floor
Atlanta, Georgia 30303

**Subject: Final Emergency Response Letter Report
Savannah Warehouse Fire
Savannah, Chatham County, Georgia
EPA Contract No. EP-W-05-054
TDD No. TTEMI-05-001-0212**

Dear Mr. Stilman:

The Tetra Tech Superfund Technical Assessment and Response Team (START) is submitting this letter report summarizing emergency response activities conducted on February 8 and 9, 2014 at the Savannah Warehouse Fire Response located in Savannah, Chatham County, Georgia. This report contains five enclosures. Enclosure 1 contains figures depicting the site location, site layout, and air monitoring locations. Enclosure 2 contains air monitoring summary tables. Enclosure 3 contains a photographic log of response activities. Enclosure 4 provides copies of Tetra Tech START's field logbook notes. Enclosure 5 contains a table of witnesses.

RESPONSE ACTIVITIES

On Saturday, February 8, 2014, U.S. Environmental Protection Agency (EPA) received notification of a fire involving 5,600 tons of palletized rubber blocks in Warehouse 3 located at the Georgia Port Authority's (GPA) Ocean Terminal, 950 West River Street, Chatham County, Savannah, Georgia. The coordinates for the site (as measured from the approximately center of the warehouse fire) is latitude 32.086336 degrees north and longitude -81.104519 degrees west (see Figures 1 and 2 in Enclosure 1). At the request of the Georgia Department of Natural Resources (DNR), Environmental Protection Division (EPD), EPA On-Scene Coordinator (OSC) Terry Stilman mobilized to the site on the afternoon of February 8, 2014. EPA requested Tetra Tech START to mobilize shortly thereafter to conduct air monitoring for airborne contaminants potentially migrating off-site from the smoke plume generated by the fire. The National Weather Service issued a dense smoke advisory for much of Chatham County due to the large smoke plume; however, no evacuations were initiated.

Local fire departments immediately responded to the fire. Firefighting efforts primarily consisted of placing a submersible pump into the Savannah River and spraying water onto the fire at a rate of 6,000 gallons per minute. Additionally, the U.S. Coast Guard assisted with response activities by placing absorbent booms around the drains to catch the runoff generated by firefighting activities. Containment boom was placed around the pier to protect outfalls as a secondary containment barrier.

Air Monitoring

At the request of EPA and GPA representatives, Tetra Tech START conducted mobile and stationary air monitoring for airborne contaminants potentially migrating off-site into residential neighborhoods from the

smoke plume. Air monitoring was conducted for volatile organic compounds (VOC), lower explosive limit (LEL), hydrogen sulfide (H₂S), carbon monoxide (CO), and oxygen (O₂) using an AreaRAE and for particulates with a diameter of ten micrometers or less (PM₁₀) using a DataRAM. Air monitoring results were compared to the associated worker safety action levels (Occupational Safety and Health Administration [OSHA] permissible exposure limits [PELs] or American Conference of Industrial Hygienists [ACGIH] Threshold Limit Values [TLVs[®]]). Particulate monitoring levels for PM₁₀ were compared to Air Quality Index values provided in the EPA Particulate Matter Fact Sheet for Fires for a one to three hour average in the unhealthy range. EPA established an action level of sustained readings (more than an anomalous, short-lived peak) of 300 micrograms per cubic meter (µg/m³) for PM₁₀ air monitoring. This action level was determined to be adequately protective of public health, but low enough to allow decision makers advanced warning of particulate levels that may be increasing to unhealthy levels at which the need for evacuations would be reevaluated. Environmental International Corporation (EIC), the GPA-procured environmental consultant, provided additional mobile air monitoring support using an AreaRAE equipped with VOC, LEL, CO, H₂S, and O₂ sensors. Roving and stationary air monitoring activities were conducted in Level D personal protective equipment. The Savannah Police Department escorted Tetra Tech START and EIC to the mobile air monitoring locations.

Roving air monitoring was conducted at six locations off-site in residential neighborhoods located west and southeast of the fire. AreaRAEs and DataRAMs were used to conduct real-time monitoring at each location. Roving air monitoring locations and results are provided in Figure 4 of Enclosure 1 and the summary tables in Enclosure 2. A summary of the roving monitoring results and the locations from which they were collected are as follows:

- Roving air monitoring was conducted near the Hudson Hill Community Center located at 2227 Hudson Street. No detections above the associated PELs, TLVs, or particulate monitoring action level were observed at this location during air monitoring activities.
- Roving air monitoring was conducted in the Hudson Hill community at the intersection of Tuten Street and Krenson Street. No detections above the associated PELs, TLVs, or particulate monitoring action level were observed at this location during air monitoring activities.
- Roving air monitoring was conducted in the Yamacraw Village community at the intersection of Fahm Street and Zubley Street. No detections above the associated PELs, TLVs, or particulate monitoring action level were observed at this location during air monitoring activities.
- Roving air monitoring was conducted in the Fellwood Homes community at the intersection of Exley Street and Ferrill Street. No detections above the associated PELs, TLVs, or particulate monitoring action level were observed at this location during air monitoring activities.
- Roving air monitoring was conducted near the Moses Jackson Activity Center located at 1410 Richards Street. No detections above the associated PELs, TLVs, or particulate monitoring action level were observed at this location during air monitoring activities.
- Roving air monitoring was conducted near the Woodville Community Center located at 129 Darling Street. No detections above the associated PELs, TLVs, or particulate monitoring action level were observed at this location during air monitoring activities.

Stationary air monitoring was conducted at two locations: the “warehouse location” and the “southeast/downwind location”. AreaRAEs and DataRAMs linked to Viper, EPA’s remote monitoring system, were deployed to these locations. Stationary Viper air monitoring locations and results are provided in Figure 3 of Enclosure 1 and the summary tables in Enclosure 2. A description of the stationary monitoring locations and a summary of the air monitoring results are as follows:

- The “warehouse location” was located on the southwest side of the Warehouse 2, approximately 500 feet southwest (downwind) of firefighting activities at Warehouse 3. No detections above the

Mr. T. Stilman
March 7, 2014

associated PELs, TLVs, or particulate monitoring action level were observed at this location during air monitoring activities.

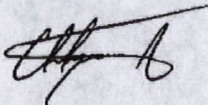
- The "southeast/downwind location" was located approximately 1,500 feet southeast (downwind) of the fire in Warehouse 3. Due to intermittent signal issues, the air monitoring equipment at this location was moved approximately 50 feet to the northeast. No detections above the associated PELs, TLVs, or particulate monitoring action level were observed at this location during air monitoring activities.

According to EIC, the GPA-procured environmental consultant, slightly less than half of the 100,000 square feet of Warehouse 3 was destroyed by the fire (see Figure 2 in Enclosure 1). At the time of the fire, 5,600 tons of bulk natural rubber was present in the warehouse; however, only an estimated 1,800 tons was burned and subsequently destroyed by the fire. The cause of the fire is currently being investigated and not available at the time this report was submitted.

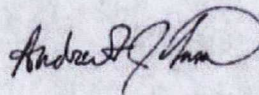
At approximately 11:00 hours on February 9, 2014, the fire was mostly contained with only minor amount of visible smoke. OSC Stilman reviewed the air monitoring data and determined that the small plume no longer posed a threat to the public. Tetra Tech START was directed to retrieve air monitoring equipment. At 12:30 hours, Tetra Tech START demobilized from the site.

If you have any questions regarding this report or the response, please call me, Chris Jones, at (678) 775-3081.

Sincerely,



Christopher Jones
Tetra Tech START III Task Order Manager



Andrew F. Johnson
Tetra Tech START III Program Manager

Enclosures (5)

cc: Katrina Jones, EPA Project Officer
Angel Reed, START III Document Control Coordinator

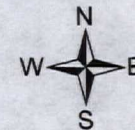
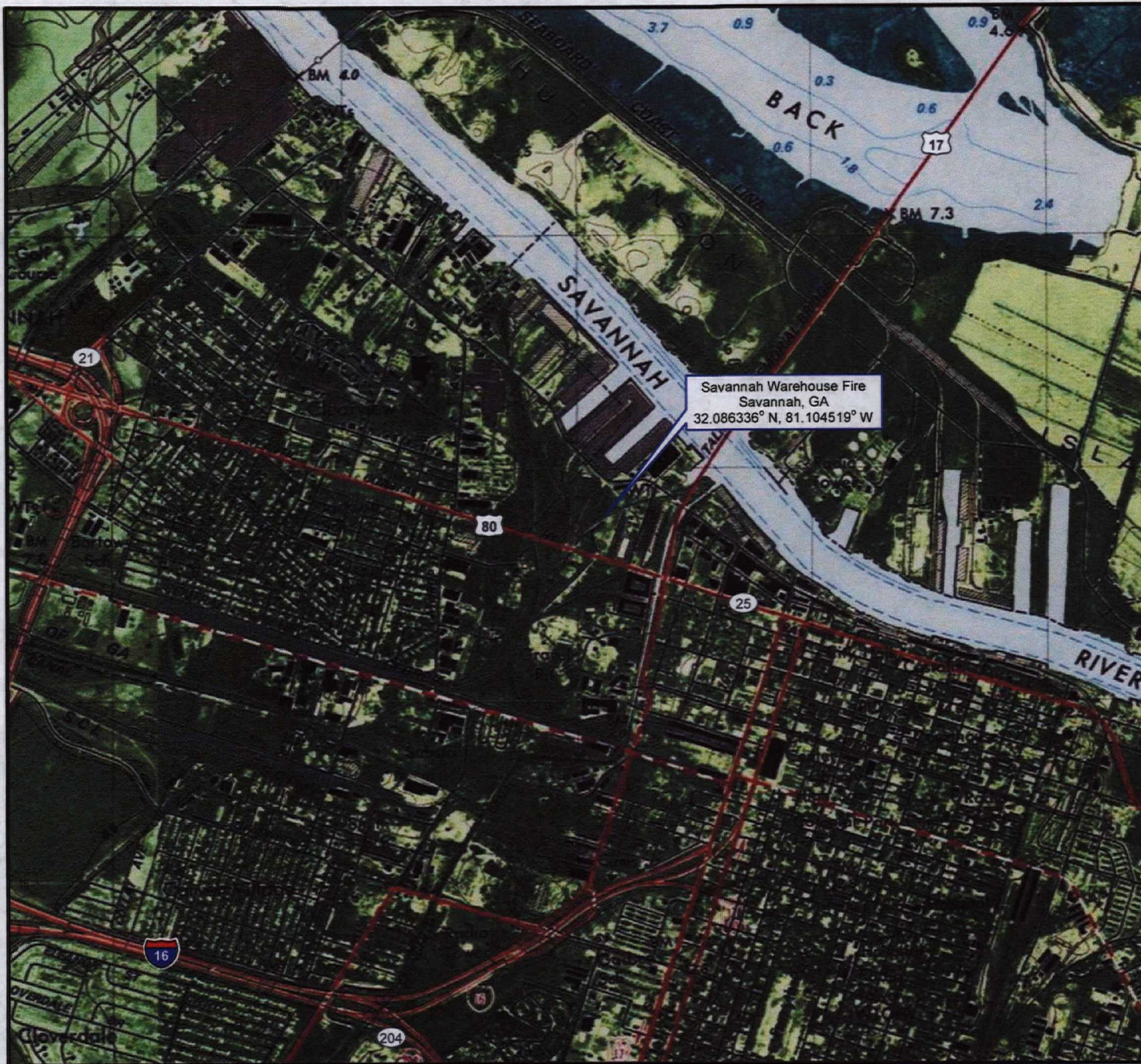
ENCLOSURE 1

FIGURES

(Four Pages)

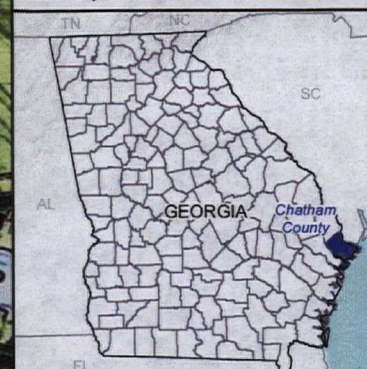
Figure

- | | |
|---|---|
| 1 | Site Location |
| 2 | Site Layout |
| 3 | Stationary Viper Air Monitoring Locations and Results |
| 4 | Roving Air Monitoring Locations and Results |



0 1,000 2,000
Feet

Map Source:
USGS 7.5 Minute Topographic Quadrangle Map:
Garden City, GA, SC 1980 & Savannah, GA-SC 1971



United States
Environmental Protection Agency
Region 4

FIGURE 1

Site Location

TDD Name: Savannah Warehouse
Fire

TDD No.: TTEMI-05-001-0212

City:	County:	State:
Savannah	Chatham	Georgia



TETRA TECH

Date:
2/24/2014
Analyst:
dale.vonbusch



Legend

- Georgia Ports Authority, Ocean Terminal Property Boundary
- Fire Damged Portion of Warehouse

0 150 300
Feet

Map Source:
BING Maps Hybrid Imagery, 2011-2012.

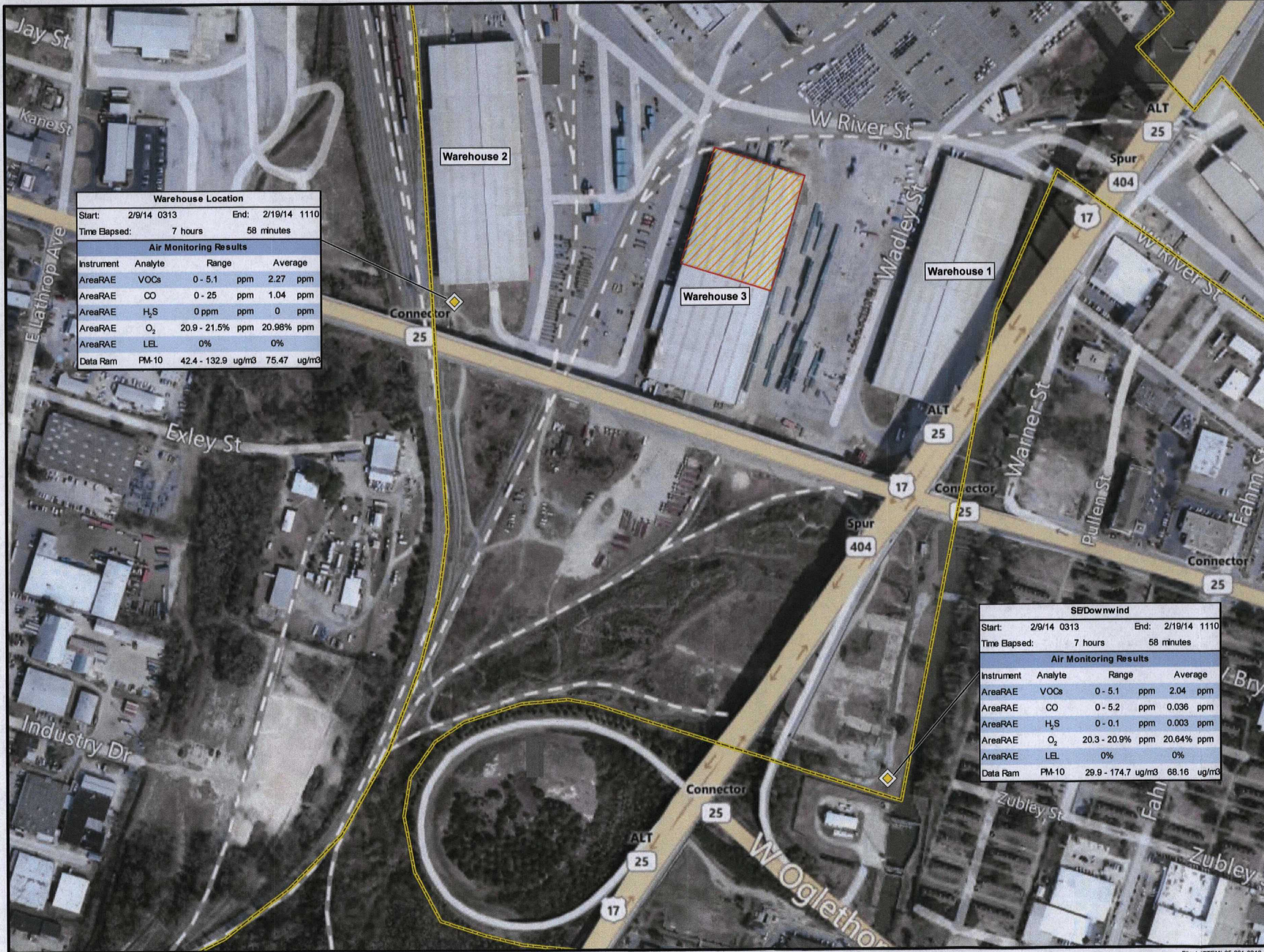
United States
Environmental Protection Agency
Region 4

FIGURE 2
Site Layout

TDD Name:	Savannah Warehouse Fire	
TDD No.:	TTEMI-05-001-0212	
City:	County:	State:
Savannah	Chatham	Georgia

TETRA TECH

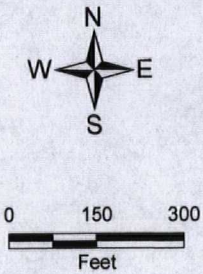
Date:
2/24/2014
Analyst:
dale.vonbusch



Warehouse Location				
Start:	2/9/14 0313	End:	2/19/14 1110	
Time Elapsed:	7 hours	58 minutes		
Air Monitoring Results				
Instrument	Analyte	Range	Average	
AreaRAE	VOCs	0 - 5.1 ppm	2.27	ppm
AreaRAE	CO	0 - 25 ppm	1.04	ppm
AreaRAE	H ₂ S	0 ppm	0	ppm
AreaRAE	O ₂	20.9 - 21.5% ppm	20.98%	ppm
AreaRAE	LEL	0%	0%	
Data Ram	PM-10	42.4 - 132.9 ug/m3	75.47	ug/m3

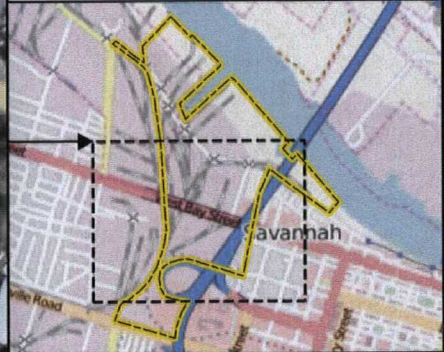
SE/Downwind				
Start:	2/9/14 0313	End:	2/19/14 1110	
Time Elapsed:	7 hours	58 minutes		
Air Monitoring Results				
Instrument	Analyte	Range	Average	
AreaRAE	VOCs	0 - 5.1 ppm	2.04	ppm
AreaRAE	CO	0 - 5.2 ppm	0.036	ppm
AreaRAE	H ₂ S	0 - 0.1 ppm	0.003	ppm
AreaRAE	O ₂	20.3 - 20.9% ppm	20.64%	ppm
AreaRAE	LEL	0%	0%	
Data Ram	PM-10	29.9 - 174.7 ug/m3	68.16	ug/m3

- Legend**
- Viper Air Monitoring Location
 - Fire Damaged Portion of Warehouse
 - Georiga Ports Authority, Ocean Terminal Property Boundary



Notes:
CO - Carbon monoxide
H₂S - Hydrogen sulphide
LEL - Lower explosive limit
O₂ - Oxygen
ppm - Parts per million
ug/m3 - micrograms per cubic meter
VOCs - Volatile organic compounds

Map Source:
Aerial Imagery: Bing Maps Hybrid, 2010-2012.



United States Environmental Protection Agency
Region 4

FIGURE 3

Stationary Viper Air Monitoring Locations and Results

TDD Name: Savannah Warehouse Fire
TDD No.: TTEMI-05-001-0212
City: Savannah County: Chatham State: Georgia

TETRA TECH

Date: 2/24/2014
Analyst: dale.vonbusch



ENCLOSURE 2

TABLES

(One Page)

Table

1 Air Monitoring Summary Tables

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: Savannah Rubber Fire

Date: February 9, 2014

Time: 3:13 AM - 11:10 AM



SE/Downwind							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV)
Area Rae	VOCs	No	559	499	0 - 5.1 ppm	2.04 ppm	5 ppm
	CO	No	559	5	0 - 5.2 ppm	0.036 ppm	50 ppm
	H ₂ S	No	559	15	0 - 0.1 ppm	0.003 ppm	20 ppm
	O ₂	No	559	558	20.3 - 20.9%	20.64%	<19.5 or >23%
	LEL	No	559	0	0%	0%	10%
Data Ram	PM-10	No	434	434	29.9 - 174.7 ug/m3	68.16 ug/m3	300

Warehouse Location							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV)
Area Rae	VOCs	No	483	378	0 - 5.1 ppm	2.27 ppm	5 ppm
	CO	No	483	79	0 - 25 ppm	1.04 ppm	50 ppm
	H ₂ S	No	483	0	0 ppm	0 ppm	20 ppm
	O ₂	No	483	478	20.9 - 21.5%	20.98%	<19.5 or >23%
	LEL	No	483	0	0%	0%	10%
Data Ram	PM-10	No	479	479	42.4 - 132.9 ug/m3	75.47 ug/m3	300

Roving Locations (1:27 - 2:00 AM)							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV)
Area Rae	VOCs	No	6	6	0.1 - 2.0 ppm	0.43 ppm	5 ppm
	CO	No	6	3	0 - 1 ppm	0.5 ppm	50 ppm
	H ₂ S	No	6	0	0 ppm	0 ppm	20 ppm
	O ₂	No	6	6	20.9 - 21.3%	20.97%	<19.5 or >23%
	LEL	No	6	0	0%	0%	10%
Data Ram	PM-10	No	6	6	21.5 - 35.9 ug/m3	29.1 ug/m3	300

Roving Locations (7:15 - 7:50 AM)							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV)
Area Rae	VOCs	No	6	3	0 - 0.1 ppm	0.06 ppm	5 ppm
	CO	No	6	1	0 - 1 ppm	0.166 ppm	50 ppm
	H ₂ S	No	6	0	0 ppm	0 ppm	20 ppm
	O ₂	No	6	6	20.90%	20.90%	<19.5 or >23%
	LEL	No	6	0	0%	0%	10%
Data Ram	PM-10	No	6	6	20.2 - 40.3 ug/m3	30.2 ug/m3	300

Notes:

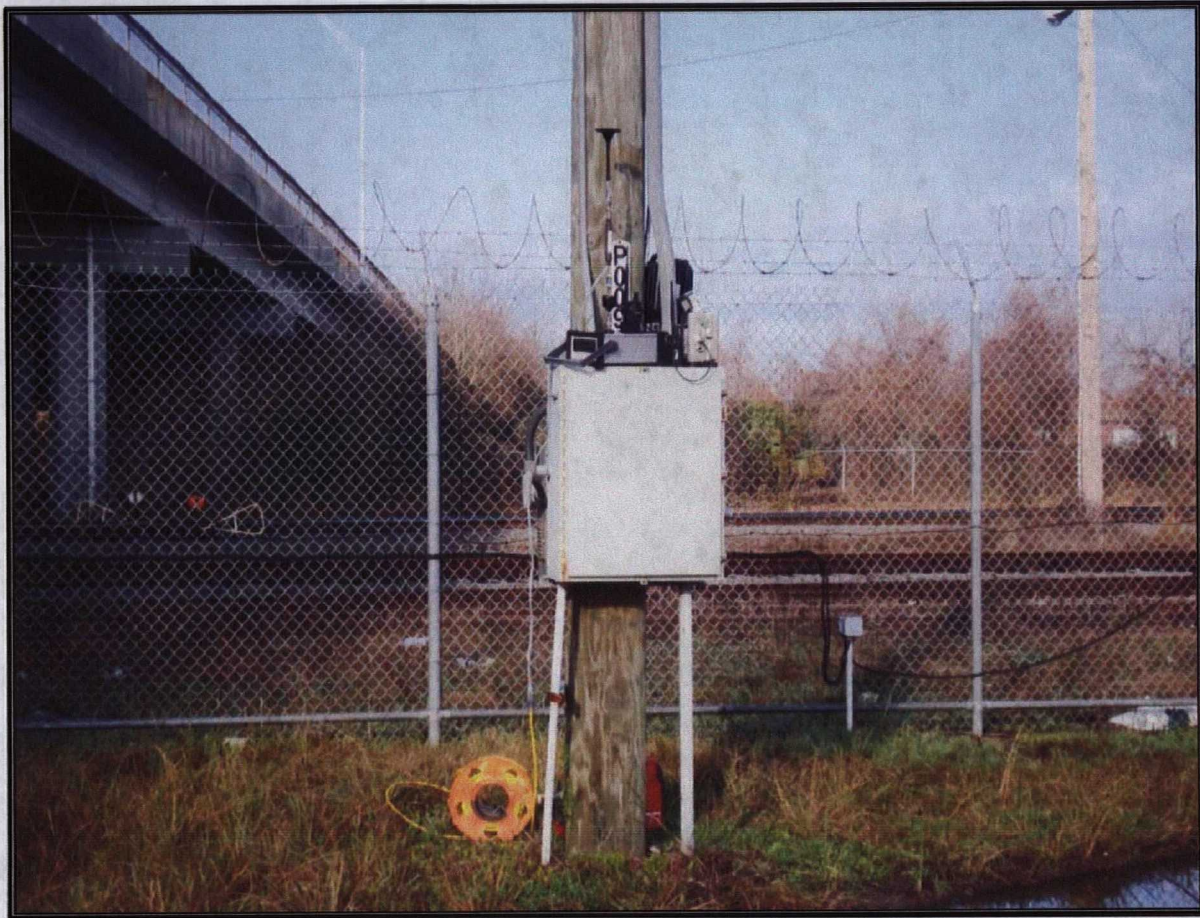
<	Less than
CO	Carbon monoxide
H ₂ S	Hydrogen sulfide
LEL	Lower explosive limit
NA	Not Applicable
O ₂	Oxygen
PM-10	Particulate matter with an average diameter less than 10 microns
ppm	Parts per million
ug/m3	micrograms per cubic meter
VOC	Volatile organic compounds

ENCLOSURE 3
PHOTOGRAPHIC LOG
(Six Pages)



**OFFICIAL PHOTOGRAPH NO. 1
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number:	TTEMI-05-001-0212	Location:	950 West River Street
Orientation:	Southeast	Date:	February 9, 2014
Photographer:	John Snyder, Tetra Tech	Witness:	Paul Prys, Tetra Tech
Subject:	Tetra Tech Superfund Technical Assessment and Response Team (START) arrived at the Georgia Port Authority's (GPA) Ocean Terminal on the evening of February 8, 2014. The facility had been burning for the previous 12 hours. The fire had been mostly contained by the time Tetra Tech START arrived at the site.		



OFFICIAL PHOTOGRAPH NO. 2
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0212

Location: 950 West River Street

Orientation: Southwest

Date: February 9, 2014

Photographer: Paul Prys, Tetra Tech

Witness: John Snyder, Tetra Tech

Subject: Tetra Tech START was directed to conduct air monitoring at two fixed, downwind locations using the EPA remote monitoring system, Viper. A Viper-linked AreaRAE and DataRAM were deployed at the warehouse location to monitor for volatile organic compounds (VOC), lower exposure limit (LEL), hydrogen sulfide (H_2S), oxygen (O_2), carbon monoxide (CO), and particulate matter of ten microns or less (PM10) in diameter.



**OFFICIAL PHOTOGRAPH NO. 3
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0212

Location: 950 West River Street

Orientation: East

Date: February 9, 2014

Photographer: Paul Prys, Tetra Tech

Witness: John Snyder, Tetra Tech

Subject: The second fixed, downwind location was located approximately 1,500 feet southeast of the fire. A Viper-linked AreaRAE and DataRAM were deployed at the southeast/downwind location to monitor for VOCs, LEL, H₂S, O₂, CO, and PM₁₀. Due to intermittent signal issues, the air monitoring equipment was moved to this location, approximately 50 feet northeast of the original location.



OFFICIAL PHOTOGRAPH NO. 4
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0212

Location: 950 West River Street

Orientation: East

Date: February 9, 2014

Photographer: John Snyder, Tetra Tech

Witness: Paul Prys, Tetra Tech

Subject: A submersible pump was placed in the Savannah River allowing firefighters to put water on the fire at a rate of 6,000 gallons per minute.



OFFICIAL PHOTOGRAPH NO. 5
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0212

Location: 950 West River Street

Orientation: Northwest

Date: February 9, 2014

Photographer: Paul Prys, Tetra Tech

Witness: John Snyder, Tetra Tech

Subject: By the morning of February 9, 2014, the fire was predominantly contained by fire fighters with only a few smoldering debris piles continuing to generate a visible plume.



**OFFICIAL PHOTOGRAPH NO. 6
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0212

Location: 950 West River Street

Orientation: Southeast

Date: February 9, 2014

Photographer: John Snyder, Tetra Tech

Witness: Paul Prys, Tetra Tech

Subject: Fire fighters continued to spray a water and foam mixture onto the smoldering areas into the morning of February 9, 2014. At approximately 11:00 hours, based on visual and air monitoring results, OSC Stilman determined the small plume was no longer a threat to the public and air monitoring activities were terminated. Tetra Tech START demobilized shortly thereafter.

ENCLOSURE 4
FIELD LOGBOOK NOTES
(Seven Pages)

3



Clear Vinyl Protective Slipcovers (Item No. 30) are available for this style of notebook. Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation

[illegible]

February 9, 2014

Pete, Snyder

2250 Arrived at the Ocean Terminal

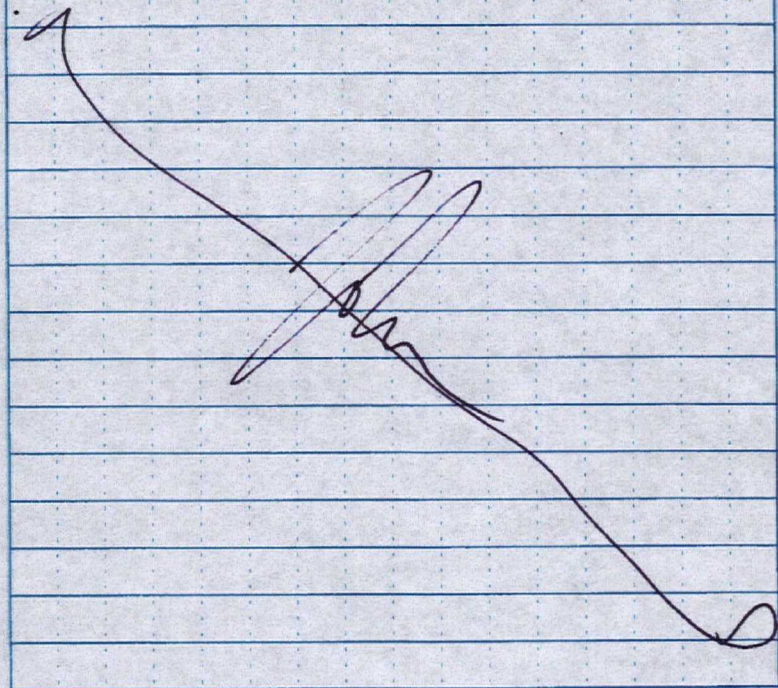
Admin Bldg. OSC Stillman, GA Ports

Authority (GPA) Natalie Davis, GA

EPD Michelle Cortes, Coast Guard

Robert Benton, and, McCaffery, OSC

Stillman updated START on site

Activities and began looking at locations
to conduct stationary air monitoring
and possible mobile air monitoring.

Scale: 1 square = _____

Feb 9 2014

0015 - QSI Charlier on site
w/ air monitoring equipment.Game Plan: Will deploy one DISTRAM/
AREARAE combo at roving locations
and two combos @ fixed -
on-site locations. Roving locations:RL01 - Yamacraw Village; intersection of
Falm Street + ZubleyRL02 - Fellwood Homes; intersection of
Exley St + Ferrell StreetRL03 - Moses Jackson Community Center
1410 Richards StRL04 - Hudson Hill Community Center -
2227 Hudson StreetRL05 - Hudson Hill Community -
Tuten St + Kramson StRL06 - Woodville Community Center -
129 Darling St

EPA AreaRAE #3: Roving AreaRAE

Bump Test: Pine S-gas Lot# 1500915 Cyl 34
CO 41(50) 38(50) VOC 103(100) H₂S: 10(10)
LEL 49(50) O₂: 18.2(18.0)

Scale: 1 square = _____

Pete in the Rain

Feb 9, 2014

AREARAE #4 calibration
 CO: 43(50)48 VOC: 100(100) H₂S: 10(10)
 LEL: 51(50) O₂: 18(18)

AREARAE #2 calibration
 CO: 50(50) VOC: 100(100) H₂S: 9(10)
 LEL: 46(50) O₂: 18(18)

0100 - Will Grant (PRP Contractor) -
 w/ Environmental Int'l Corp -
 on site to conduct air -
 monitoring as well

Roving Monitoring, w/ Savannah PD
 * Fenton + Zuberly: 0127 (RL01) -
 CO: 1 VOC: 0.2 H₂S: 0
 LEL: 0 O₂: 20.9

PM₁₀: 35.9 µg/m³

* Ferrell + Exeley: 0135 (RL02)
 CO: 1 ppm VOC: 0.1 ppm H₂S: 0 ppm
 LEL: 0% O₂: 21.3%

PM₁₀: 30.7 µg/m³

Moses Jackson Activity Center: 0140 (RL03)
 CO: 0 ppm VOC: 0.2 ppm H₂S: 0 ppm
 LEL: 0% O₂: 20.9%

PM₁₀: 30.1 µg/m³

Scale: 1 square = _____

Feb 9, 2014

Tuettan + Krenson St: 0145 (RL05)
 CO: 1 ppm VOC: 0.1 ppm H₂S: 0 ppm
 LEL: 0% O₂: 20.9%

PM₁₀: 28.8 µg/m³

Hudson Hill Community Center: 0150 (RL04)
 CO: 0 ppm VOC: 0.1 ppm H₂S: 0 ppm
 LEL: 0% O₂: 20.9% PM₁₀: 27.6 µg/m³

Woodville Community Center: 0200 (RL06)
 CO: 0 ppm VOC: 0.1 ppm H₂S: 0 ppm
 LEL: 0% O₂: 20.9% PM₁₀: 21.5 µg/m³

0215 - Finished Roving Monitoring
 w/ Officer Eric Loughrey of
 Savannah Chatham P.D.; ⁶ Jus
 Snyder back to Command Post

GPS Locations for Roving:

RL01: 32°04'51" 81°06'02"

RL02: 32°05'07" 81°06'52"

RL03: 32°05'06" 81°07'04"

RL04: 32°05'34" 81°07'36"

RL05: 32°05'31" 81°07'18"

RL06: 32°05'17" 81°08'31"

0230 Street Pays and GSI Charlie Parker

departed site office to deploy AREARAEs
 and datagrams.

Scale: 1 square = _____

Rite in the Rain

Feb 9 2014

0300 START PAYS AND OSI PARKER RETURNED
to site office.

0321: Snyder + OSC Stilman conduct
perimeter PM₁₀ monitoring.

* 200' N of building : 33.8 $\mu\text{g}/\text{m}^3$

* 200' W of building : 32.7 —

* 200' NE of building : 164.4 —

* 150' E of building : 35.3 —

0700 - Will Grant w/ EIC returns
on-site. Grant + Snyder to
conduct second round of
rooming air monitoring.

0715 - @ RLO1 (Fahm + Zubly) —

CO: 0 ppm VOC: 0.1 ppm H₂S: 0 ppm —

LEL: 0% O₂: 20.9% PM₁₀: 40.4 $\mu\text{g}/\text{m}^3$

0725 - @ RLO2 (Exley + Ferrill) —

CO: 0 ppm VOC: 0.1 ppm H₂S: 0 ppm —

LEL: 0% O₂: 20.9% PM₁₀: 40.3 $\mu\text{g}/\text{m}^3$

0730 - @ RLO3 (Moses Jackson) —

CO: 0 ppm VOC: 0.1 ppm H₂S: 0 ppm —

LEL: 0% O₂: 20.9% PM₁₀: 27.2 $\mu\text{g}/\text{m}^3$

0737 - @ RLO4 (Hudson Hills Comm. Center)

CO: 0 ppm VOC: 0 ppm H₂S: 0 ppm

LEL: 0% O₂: 20.9% PM₁₀: 21.3 $\mu\text{g}/\text{m}^3$

Scale: 1 square = _____

Feb 9 2014

0745 - @ RLOS (Hudson Hills Community)

CO: 0 ppm VOC: 0.1 ppm H₂S: 0 ppm

LEL: 0% O₂: 20.9% PM₁₀: 31.7 $\mu\text{g}/\text{m}^3$

0750 - @ RLO6 (Woodville Comm. Center)

CO: 0 ppm VOC: 0 ppm H₂S: 0 ppm

LEL: 0% O₂: 20.9% PM₁₀: 20.2 $\mu\text{g}/\text{m}^3$

0805 - EIC Grant + START Snyder
back on site

Late Note: At 0420, START PAYS AND OSI

Parker departed site office to place the

heaters on the datarams. The warehouse

monitoring location (32.085655, -81.107513)

remained the same, but the down gradient

feeder line area (32.081829, -81.103760)

was moved to 32.081646, -81.103134

to improve reception for signal strength.

Warehouse location included the following

Equipment: AREA RAE 1, Link 230; Data Ram

D707, Link 228; and Gateway EPAERT 22.

The down gradient location included:

AREA RAE 4, Link 229; Data Ram D711,

Link 140; Gateway EPAERT 83. At 0505,

START PAYS AND OSI PARKER RETURNED

to site office.

Scale: 1 square = _____

Rate in the Rain

Feb 9 2014

0845. START Prys + QSI Parker -
change batteries in fixed -
station DataRAM / AreaRAE locations.

0915 START Prys and QSI Parker returned
to the site office. The generator at the
warehouse location ran out of gas and
the heater on the DataRAM was no longer
operational. The generator at the sawn
gradient location was still running,
but was turned off because it was
almost out of gas and the thick fog in
the area had lifted.

1100- START/QSI/EPD/OSC meet to -
discuss near future plan. START/QSI
will pack up air monitoring equipment
and prepare to demobe. OSC still has
recommends START/QSI standby until
he meets w/ GPA personnel to discuss
EPA role in near future.

1115- Viper shut down

1125. START Snyder spoke w/ GPA -
Sarah Killen (912-663-1004),
Insurance Manager. Ms
Killen confirmed total building

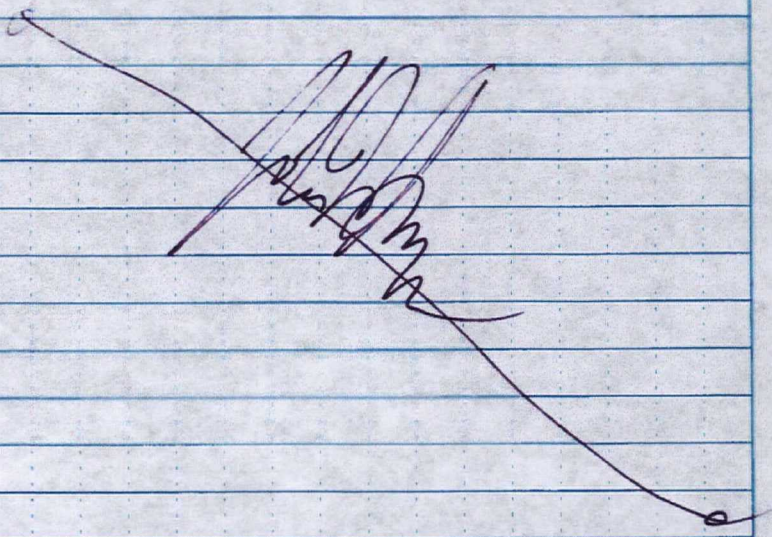
Scale: 1 square = _____

Feb 9 2014

area to be $\approx 226,000 \text{ ft}^2$, approx. -
half of which completely burned
out (113,000 ft^2). Confirmed
burned material was "palletized
raw rubber"; solid blocks of
material used in manufacturing.
Could not speculate on cause;
confirmed fire called in
on 2/8/14 around 1130.

1200- All parties demobe from site
(EPA, START, QSI)

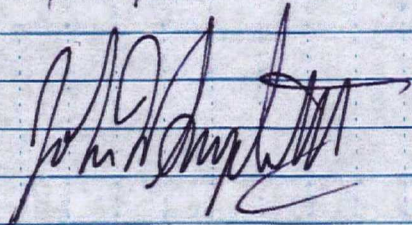
1630- START back at Duth office -



Scale: 1 square = _____

Rite in the Rain

End
2/9/14



Scale: 1 square = _____



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DAWN

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Scale: 1 square = _____

rise in the Rain

DEPARTMENT OF NATURAL RESOURCES



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Coastal District

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OUR CONTRIBUTION TO THE ENVIRONMENT

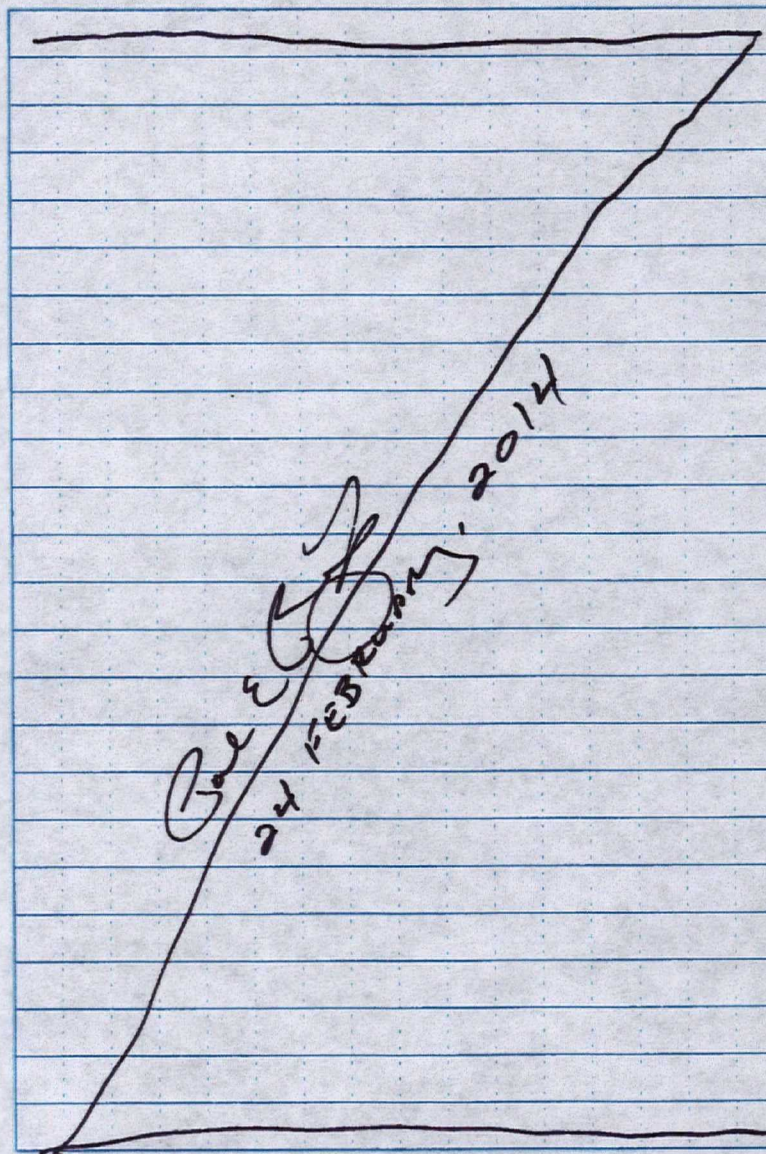


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Chief Willie C. Lovett

Eric Loughrey
Police Officer

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(248) 918-7143
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Scale: 1 square = _____

Rite in the Rain

ENCLOSURE 5
TABLE OF WITNESSES
(One Page)

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